

# NAV5 GMDSS NAVTEX RECEIVER

*Approved for Compulsory fit on SOLAS Vessels*



*ICS Electronics Ltd have a world-wide reputation in the design and manufacture of MF/HF radio data communications equipment. As well as supplying DSC, NAVTEX, Weather Facsimile, Satellite systems to the marine market, ICS equipment is extensively used by coast radio stations and navies throughout the world.*

*The NAVTEX service provides English language text information world-wide up to 300 miles offshore. Navigation warnings, search and rescue information, weather forecast and meteorological warnings are transmitted at regular intervals.*

*The NAV5 is approved for compulsory fit on SOLAS vessels.*



NAVTEX is an important element of the Global Maritime Distress and Safety System. The International Maritime Organisation requires that all vessels over 300grt are fitted with a type approved NAVTEX receiver.

NAVTEX messages are broadcast in English on 518kHz. Each NAVTEX transmitting station has a range of approximately 300nm, broadcasting weather forecasts, gale-warnings, navigation warning, electronic navigation system status messages (GPS, Decca, Loran, Omega), ice reports and search and rescue information. Routine broadcasts are made every four hours and provided the NAV5 is kept switched on, once a message has been printed, repeats will not be reprinted within 72 hours. Certain message categories such as gale warnings and search and rescue information can be transmitted at any time. Search and rescue messages will activate the acoustic alarm. In addition to the standard transmissions in English on 518kHz, certain authorities may transmit in their national language on 490kHz or use 4209.5kHz.

The NAV5 is a reliable, compact, rugged, easy to use equipment which has been designed to meet the latest IMO, ITU and ETS NAVTEX specifications. It is type approved for IMO GMDSS fitting and includes all the facilities required for reception and printing of NAVTEX messages. The NAV5 is user friendly and very easy to set up, using an LCD display and keypad. It not only fulfils the basic need to print the NAVTEX messages in English but with the addition of an optional internal module it can receive either non-English messages on 490kHz or tropical transmissions on 4209.5kHz. Unlike most competitive products the NAV5 can receive message broadcasts on two frequencies simultaneously, either 518kHz/490kHz or 518kHz/4209.5kHz.

The ICS NAV5 is supplied with a comprehensive user manual, power lead, paper roll and 'U' mounting bracket.

Several antenna options are possible: The ICS passive NAV-ANT/w NAVTEX antenna with NAV-CLAMP/a mounting bracket and cables and the NAV-ACTIVE broad band active antenna.

Options include 490kHz or 4209.5kHz second receiver, a Cyrillic script print facility, NAV-PSX mains/battery power unit and FMT2 flush panel mounting kit.

## FEATURES

- ▶ Type approved to ETS300-065, EN 60945 and ITU-RM. 540-2 specifications.
- ▶ 'Wheelmarked' to meet European Maritime Equipment Directive requirements.
- ▶ Simple to install and use.
- ▶ Compact, rugged construction.
- ▶ Low acoustic noise thermal printer.
- ▶ User friendly station and message category selection via an LCD display and keypad.
- ▶ Capable of receiving on 518kHz and either 490kHz or 4209.5kHz simultaneously, with optional second receive module.
- ▶ Optional NAV-ANT/w passive high reliability remote antenna containing no active components.
- ▶ Self Test facility.
- ▶ Cyrillic script print-out option.
- ▶ Table top, deckhead and panel mounting.

# NAV5 Technical Specifications



## RECEIVER

Receive Frequency: 518 kHz  
 Optional Frequencies 490 kHz, 4209.5kHz  
 Sensitivity <2 microvolts  
 Frequency Stability: +/- 10 Hz  
 Antenna Input 50 ohms

## CONTROLS

Power ON/OFF,  
 Display backlight DIM, Paper  
 advance, Alarm cancel, Four  
 menu programming keys

## DISPLAY

2 x 16 character line backlit LCD

## INPUTS

518kHz NAVTEX antenna  
 50ohms  
 490kHz or 4209.5kHz  
 antenna 50ohms

## ALARMS

Vital message receipt

## POWER SUPPLY

Paper out  
 Voltage: 9-30 volts DC  
 Power Consumption: 1.5 watts standby  
 2.5 watts printing

## ENVIRONMENTAL

Temperature Range: 0°to +40°C operating  
 Humidity: 0 to 95% non-condensing

## TYPE APPROVAL

BS EN 60945: 1997-EMC clauses  
 IMO Resolutions A525 (13);  
 A694 (17) ITU-R 540-2, ETS  
 300-065:1992

## PRINTER

Type: Thermal 40 characters  
 per line  
 Character Size: 7 x 5 matrix  
 Paper Roll: 80mm wide x 20m long  
 Paper Out Audible and visual  
 alarms

## MOUNTING

Desk-top, bulkhead or  
 panel mount

## WEIGHT

1.5kg

## DIMENSIONS

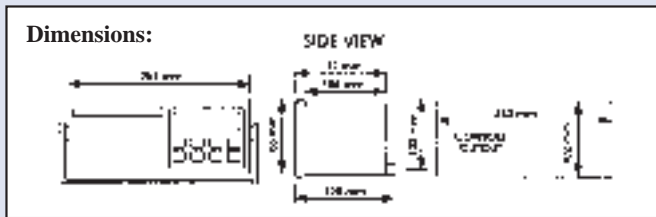
252W x 106H x 120D mm

## PRODUCT CODE:

915.01 NAV5 518 kHz  
 Printing NAVTEX receiver, with  
 'U' mounting bracket and one  
 paper roll.  
 915.07 NAV5 - CYRILLIC  
 518 kHz Printing NAVTEX  
 receiver, as NAV5 above  
 with CYRILLIC alphabet printing.

## OPTIONS

905.03: NAV-ANT/w 518 &  
 490 kHz Passive NAVTEX  
 antenna, PL socket connection.  
 White glass fibre construction  
 with 1" nut/ bolt mount fitting.  
 903.01: NAV-CLAMP Stainless  
 Steel stand-off mounting bracket  
 for NAV-ANT/w  
 903.00: NAV-CABLE 20 20m  
 antenna cable with connectors for  
 NAV-ANT/w  
 905.02: NAV-ACTIVE Multi -  
 Frequency antenna, 0.92M S/S  
 rod with stand-off bracket, 20 m  
 cable and 10 - 30 Vdc power  
 supply unit.  
 913.20: FMT2 Flush mounting kit for  
 NAV5  
 913.08: NAV-RCV 4209.5 Second  
 channel 4209.5 kHz receiver  
 option for NAV5  
 913.09: NAV-RCV 490 Second channel  
 490 kHz receiver option for NAV5  
 913.13: NAV-ROLLS box of eight  
 NAVTEX paper rolls  
 913.07: NAV-PSX auto revert to DC  
 change over power supply unit  
 110 / 230 Vac & 24 Vdc input -  
 24 Vdc output.  
 CIS-CERT: Russian Register of Shipping  
 Certificate  
 CHI-CERT: Chinese Register of Shipping  
 Certificate  
 3017.00: Technical manual



Available from:

ICS Electronics has a policy of continuous product improvement and reserve the right to vary in detail from the specifications contained in this brochure.

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